

State of Utah  
Division of Oil Gas & Mining  
Mining/Exploration Summary

01/19/2016

**SMALL MINING OPERATION**Permt # **S230086**Name: **COYOTE KNOLL 1-2-3 2****Permit Status**

Status: **APP**      Approved:       
Recieved: **08/10/2004**      **10/28/2004**  
Tent Appr: **/ /**

**Mine Status**

Status: **ACT**  
Date: **10/28/2004**

**Ownership**

Surface: **BLM**  
Mineral: **FEE**

**Location**

UTMX: **367,997**  
UTMY: **4,408,145**

**Methods**Minerals Mined/Explored: **SILICA, SILVER, GOLD**Surf/Under: **SURFACE**

Methods Used:

**Bonding**

Approved Acres	Acres Released	Date Released
<b>5</b>	<b>0</b>	<b>/ /</b>
Bond Type		
<b>CASH</b>		
Bond Amount:	Date Bond Expires:	
<b>\$ 64,500</b>	<b>10/26/2018</b>	

**Permit Fees**

Date Sent	Date Received
<b>01/20/2015</b>	<b>02/17/2015</b>
Fee Received	Cash Receipt
<b>\$ 150</b>	<b>1NROG0000</b>
Delinquent Notice	
<b>/ /</b>	

**Comments:**

02/17/2015 - Rec'd ChecI #1268 in the amount of \$150.00 - Annual Permit Fees  
09/29/2010 - Sent letter Deficient NOI. Must Transfer from McFarland & Hullinger to Broken Arrow Inc.  
06/30/2010 - Rec'd check #71370 in the amount of \$700.00 - annual permt fees - \$150.00 Harborlite Perlite Pite S0450044, \$150.00 Coyote Knoll 1-2-3 2,S0230086, \$150.00 Tule Valley Silica S0270104, \$150.00 Ophir Limestone S0450067, \$150.00 MH- Calcite Quarry S0450029  
07/22/2009 - Rec'd check #06796 in the amount of \$150.00 - annual permit fees  
0/3/19/2009 - LH sent e-mail Si02 Resources in Utah- attached a list with the active and proposed SILICA Mines in Utah.  
07/25/2008 - Rec'd Check #22646 in the amount of \$150.00 annual permit fee.

**Last Action**Action: **14 FEE**Start Date: **01/20/2015**End Date: **/ /**

Fee \$0 - Receipt #

**Last Inspection**Date **09/18/2012**Inspector **WHW****Purpose of Inspection:**

The Division received a report that the mine had been expanded to 11.6 acres without authorization to expand beyond five acres.

**Last Annual Report 2013**Acreage: **10.0**Acr Reclaimed: **2.0**Production: **0, ,****Last Agency Action**Agency: **BLM**Agency ID: **UTU-072898-01**Date: **/ /****Operator AMNOR ENERGY INC**Oper Id: **1468**

TaxID

Contact: **GREG KOFFORD**Address: **BOX 1362**Phone: **801-295-1999**Fax **877-240-1615**E-Mail **gregk@amnorenergy.com****DRAPER UT 84020-1362**

Another address is 575 West 2600 North, Bountiful, UT 84010

**Location**

Qqqr	Qqtr	Qtr	Section	Township	Range	Merid	Quad Sheet
	<b>NW</b>	<b>NE</b>	<b>05</b>	<b>S12.0</b>	<b>W06.0</b>	<b>S</b>	<b>desert mountain pass</b>

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# Amnor 2016 Bond Calculation

Coyote Hills Mine  
TL

## Project Parameters

Project Location	Utah
Region	Juab County
Distance to Support	40.0 miles
Distance to Dump Site	40.0 miles
Distance to Hazardous Waste Dump	miles
Special Rate Wage Adjustment	percent
Special Rate Burden Adjustment	percent
Post Closure Monitoring Period	months

## Hourly Labor Costs (Wages plus Fringe Benefits)

Supervisors	\$57.92 /hour
Loader Operators	\$40.42 /hour
Scraper Operators	\$39.42 /hour
Bulldozer Operators	\$52.65 /hour
Backhoe Operators	\$52.65 /hour
Grader Operators	\$52.65 /hour
Haul Truck Drivers	\$44.71 /hour
Breaker Operators	\$15.81 /hour
Tractor Operators	\$44.71 /hour
Service Truck Drivers	\$45.23 /hour
Construction Workers	\$12.66 /hour
Mechanics	\$24.15 /hour
Demolition Laborers	\$14.80 /hour
Site Work Laborers	\$26.09 /hour

## Supply Costs

Diesel Fuel	\$2.390 /gallon
Gasoline	\$1.950 /gallon
Electric Power	\$0.050 /kWh
Off-site Maintenance Labor	\$52.65 /hour

Evaluator: Project Evaluator  
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Amnor 2016 Bond Calculation

Coyote Hills Mine  
TL

Excavate/Stockpile

Seperate Fines for Cover Soil

Excavator

Bank Density

Swell Factor

Excavated Density

Backhoe Bucket Volume Capacity

Backhoe Bucket Weight Capacity

Backhoe Availability

Backhoe Bucket Fill Factor

Volume

Backhoe Swing Angle

Average Digging Depth

Total Cycle Time

Job Cost

Backhoe # 1

4,400 pounds/cubic yard

25 percent

3,520 pounds/cubic yard

2.40 cubic yards

11.2 tons

77.5 percent

95.0 percent

8,000 cubic yards

120 degrees

2.0 feet

.35 minutes

\$4,889

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# Amnor 2016 Bond Calculation

Coyote Hills Mine  
TL

## Spread and Contour Spread and Contour

Spreader

In-place Density

Swell Factor

Loose Density

Bulldozer Blade Capacity

Bulldozer Availability

Bulldozer Blade Efficiency

Bulldozer Traction Efficiency

Dozing Distance

Dozing Gradient

Volume Spread

Bulldozer Speed - Dozing

Bulldozer Speed - Transport

Bulldozer Speed - Return

Total Cycle Time

Job Cost

Bulldozer # 1

4,400 pounds/cubic yard

25 percent

3,520 pounds/cubic yard

4.15 cubic yard

85.1 percent

95.0 percent

70.0 percent

40 feet

3.0 percent

50,000 cubic yards

2.10 miles per hour

3.70 miles per hour

4.50 miles per hour

0.46 minutes

\$21,652

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Amnor 2016 Bond Calculation

Coyote Hills Mine  
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Excavate/Load/Haul/Dump  
Waste Rock to Pit

Excavator  
Hauler  
Bank Density  
Swell Factor  
Excavated Density  
Loader Bucket Volume Capacity  
Loader Bucket Weight Capacity  
Loader Availability  
Loader Rolling Resistance  
Loader Bucket Fill Factor  
Truck Bed Weight Capacity  
Truck Bed Volume Capacity  
Truck Availability  
Truck Rolling Resistance  
Truck Bed Fill Factor  
Transport Distance # 1  
Volume  
Loader Cycle Time  
Truck Cycle Time

Wheel Loader # 1  
Truck # 1  
4,400 pounds/cubic yard  
25 percent  
3,520 pounds/cubic yard  
4.5 cubic yards  
14.4 tons  
88.7 percent  
3.0 percent  
95.0 percent  
30.0 tons  
31.6 cubic yards  
84.2 percent  
3.0 percent  
95.0 percent  
300 feet  
100,000 cubic yards  
0.19 minutes  
5.05 minutes  
\$87,860

Job Cost

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## Amnor 2016 Bond Calculation

Coyote Hills Mine  
TL

Seed	
Seeding	
Seed Variety	Big Sagebrush
Application Method	Hydro
Area	11.00 acres
Application Rate	1.00 pounds/acre
Job Cost	\$6,738
Soil Stabilization	
Straw Mulch	
Site Area	11.00 acres
Erosion Control Blankets	None Required
Copolymer Emulsion	None Required
Tackifier	None Required
Mulch	Straw
Job Cost	\$2,476
Building Demolition	
Trailer Demo	
Building Construction Materials	Steel Frame/Steel Siding
Average Building Height	10 feet
Average Building Length	40 feet
Average Building Width	10 feet
Haul Distance	40.0 miles
Job Cost	\$785
Scarify	
Scarify	
Surface Area	11.00 acres
Average Side Slope	4.0 percent
Number of Passes	2 passes
Implement Width	10.0 feet
Average Machine Speed	3.9 miles per hour
Job Cost	\$851
Disposal	
Solid Waste Disposal	
Deposit Location	Dump
Hazardous Materials	None
Weight	20.00 tons
Transport Distance	40.0 miles
Job Cost	\$1,828

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# Amnor 2016 Bond Calculation

Coyote Hills Mine  
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## Equipment Requirements

Hydraulic Backhoe  
Bulldozer  
Rear-Dump Hauler  
Front-End Loader  
Crawler Tractor  
Crawler Tractor  
Mulcher

2.40 cubic yard  
4.15 horsepower  
10.0 ton  
4.50 cubic yard  
75 horsepower  
85 horsepower  
16.0 horsepower

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# Amnor 2016 Bond Calculation

Coyote Hills Mine  
TL

## Crew Requirements

Project Foremen	163.6 hours
Loader Operators	129.6 hours
Bulldozer Operators	188.1 hours
Backhoe Operators	39.7 hours
Haul Truck Drivers	528.2 hours
Seeder Operators	73.1 hours
Tractor Operators	12.5 hours
Laborers	46.0 hours

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# Amnor 2016 Bond Calculation

Coyote Hills Mine  
TL

## Equipment Mobilization Costs

Hydraulic Backhoe

\$608

Bulldozer

\$569

Rear-Dump Hauler

\$547

Front-End Loader

\$569

Crawler Tractor

\$569

Crawler Tractor

\$569

Total Mobilization Cost

\$3,432

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## Amnor 2016 Bond Calculation

Coyote Hills Mine  
TL

### Project Job Costs

Seperate Fines for Cover Soil	\$4,889
Waste Rock to Pit	\$87,860
Spread and Contour	\$21,652
Seeding	\$6,738
Straw Mulch	\$2,476
Trailer Demo	\$785
Scarify	\$851
Solid Waste Disposal	\$1,828
Total	\$127,079

Evaluator: Project Evaluator  
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# Amnor 2016 Bond Calculation

Coyote Hills Mine  
TL

## Administrative and Overhead Charges

Project Operation and Maintenance Costs

\$130,511

Project Contingency

7.50 percent

\$9,788

Contractor's Profit

10.00 percent

\$13,051

Liability Insurance

0.00 percent

\$0

Bond Premium

3.00 percent

\$3,915

Engineering and Design

1.00 percent

\$1,305

Agency Indirect Costs

1.50 percent

\$1,958

Agency Contract Management

5.00 percent

\$98

Total Project Overhead Cost

\$34,031

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## Amnor 2016 Bond Calculation

Coyote Hills Mine  
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Bond Cost Estimate	
Earth Moving	\$114,401
Site Work	\$3,327
Planting and Seeding	\$6,738
Closures	\$0
Demolition	\$785
Disposal	\$1,828
Monitoring	\$0
ISL Remediation	\$0
Mobilization	\$3,432
Administration	\$34,031
Required Bond Value	\$164,542

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